

**(19) World Intellectual Property
Organization
International Bureau**



PCT

(10) International Publication Number
WO 2005/063795 A1

(71) Applicants and
(72) Inventors: **BENATTI, Umberto** [IT/IT]; Via Acquarone, 10/7, I-16125 Genova (IT). **BRANDI, Giorgio** [IT/IT]; Via Dei Partigiani, 14, I-61033 Fermignano (IT). **GARACI, Enrico** [IT/IT]; Via Salaria, 237, I-00198 Roma (IT). **MAGNANI, Mauro** [IT/IT]; Torre San Tommaso, I-61029 Urbino (IT). **MILLO, Enrico** [IT/IT]; Corso Europa, 632/7, I-16148 Genova (IT). **PALAMARA, Anna Teresa** [IT/IT]; Via Cardinal De Luca, 22, I-00196 Roma (IT). **ROSSI, Luigia** [IT/IT]; Via G. Santi, 2, I-61029 Urbino (IT).

(22) International Filing Date:
29 December 2004 (29.12.2004)

(25) Filing Language: English

(26) Publication Language: English

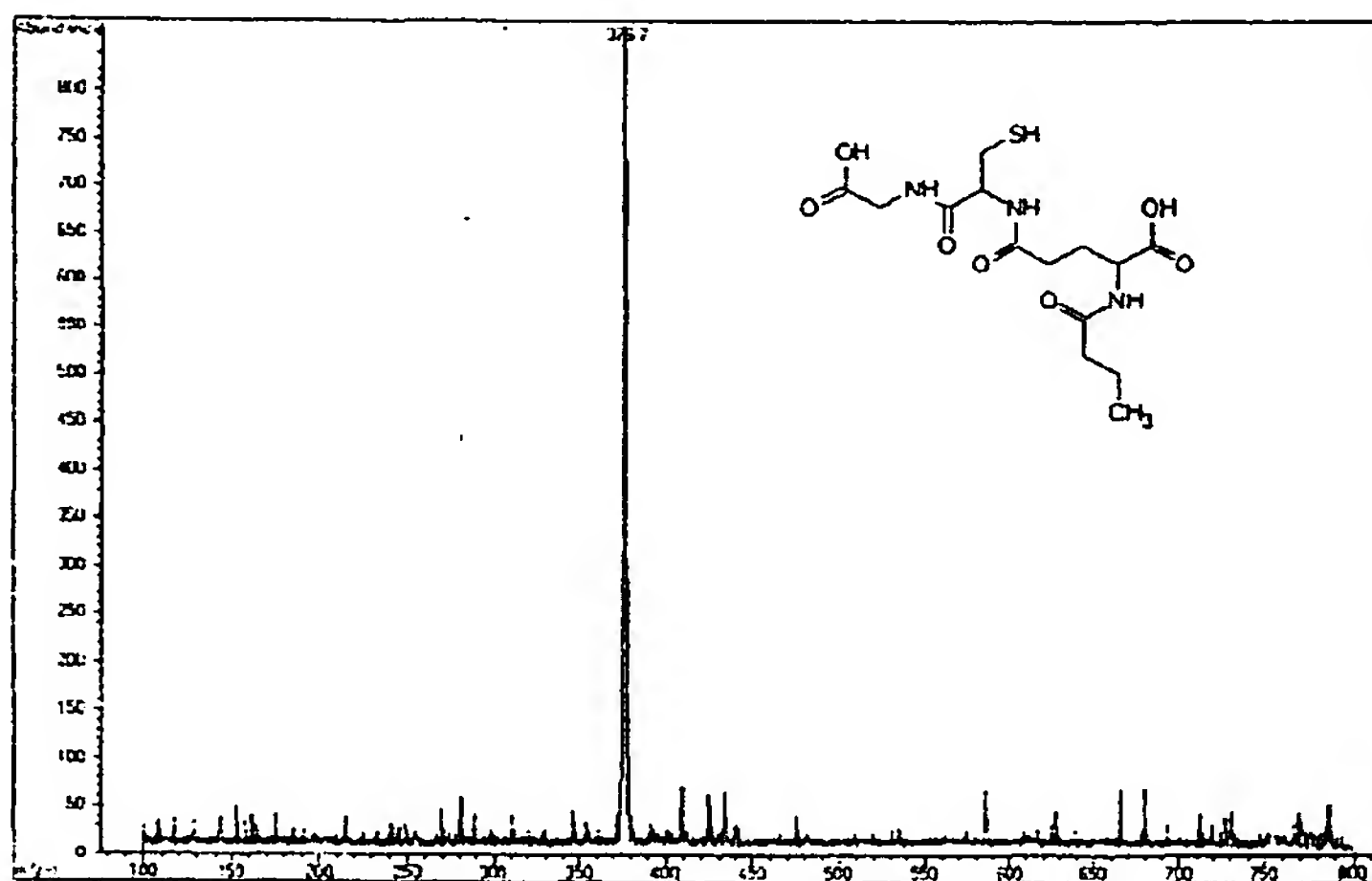
(30) Priority Data:
TO2003A001048
30 December 2003 (30.12.2003) IT

(74) Agents: JORIO, Paolo et al.; Studio Torta S.r.l., Via Viotti, 9, I-10121 Torino (IT).

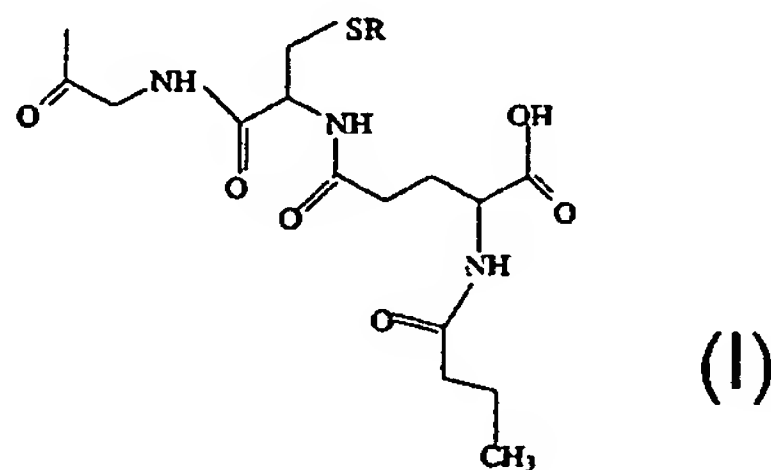
(81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,

[Continued on next page]

(54) Title: GLUTATHIONE DERIVATIVES AND THEIR USES FOR THE TREATMENT OF VIRAL DISEASES



(57) Abstract: Glutathione derivatives (GSH) of formula (I) are provided, wherein R is a thiol protection group. The derivatives are useful for the treatment of infections from Paramyxovirus, Orthomyxovirus, Herpes Simplex Virus and Acquired Immunodeficiency Syndrome Virus.



WO 2005/063795 A1

BEST AVAILABLE COPY



MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

BEST AVAILABLE COPY